



CALIFORNIA

Agricultural Bulletin

EDD Employment
Development
Department
State of California

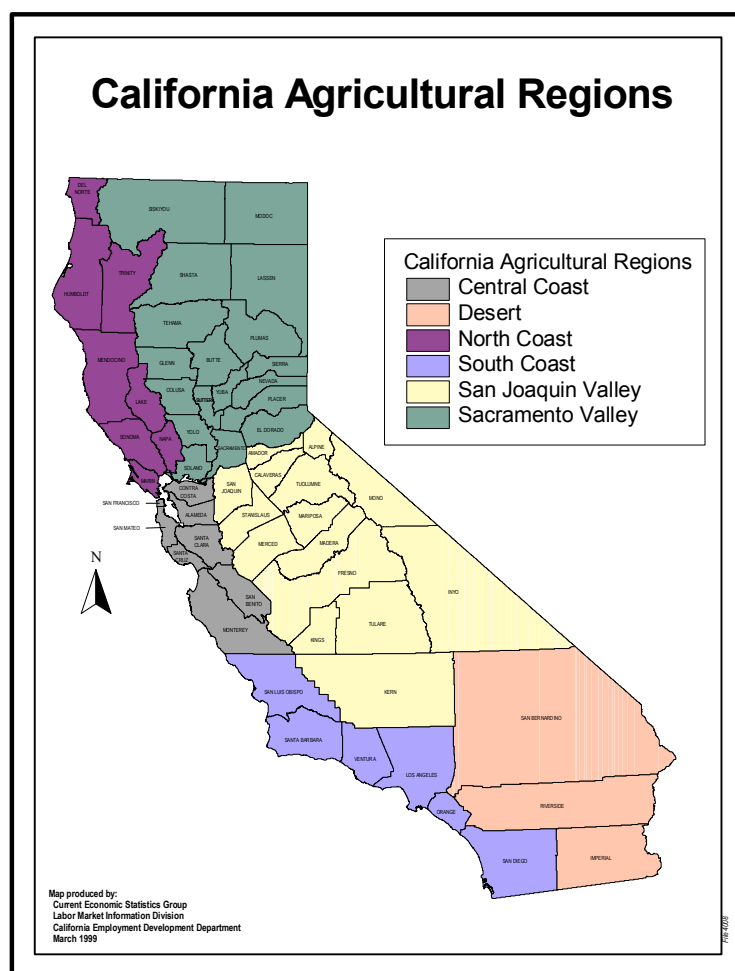
August 2002
(Internet Version)

In This Issue

Agricultural Overview	1
Summary	2
Agricultural Summary Charts	3
California Employment	4
Central Coast Employment	5
Desert Employment	6
North Coast Employment	7
South Coast Employment	8
San Joaquin Valley Employment	9
Sacramento Valley Employment	10
Data Notes	11

Agricultural Overview

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from five to seventeen within each of the six geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

LMID
Labor Market Information Division
"Your Information Source"

Summary

Employment

California agricultural employment for August 2002 increased 67,500 jobs over the previous month, a gain of 18 percent. Total Agricultural Production increased 33,700 jobs from July 2002 to August 2002, a gain of 16 percent. Agricultural Services increased by 33,800 jobs, a gain of 20 percent. It is normal for Agricultural Employment to show an increase from July to August. However, the change in California agricultural employment from July 2001 to August 2001 was a decrease of 2,100 jobs.

Farm Labor Contractor Services registered the largest increase for the month with a gain of 60,200 jobs. A significant increase was registered in Grape crops where 19,900 jobs were added. The largest decrease for the month was seen in Crop Preparation Services with a decline of 24,000 jobs. Total agricultural employment increased 33 percent in the Sacramento Valley Region, 26 percent in the Central Coast Region, 25 percent in the San Joaquin Valley Region, and 22 percent in the North Coast Region. Agricultural employment decreased 12 percent in the Desert Region and three percent in the South Coast Region.

Production and Crop Activity

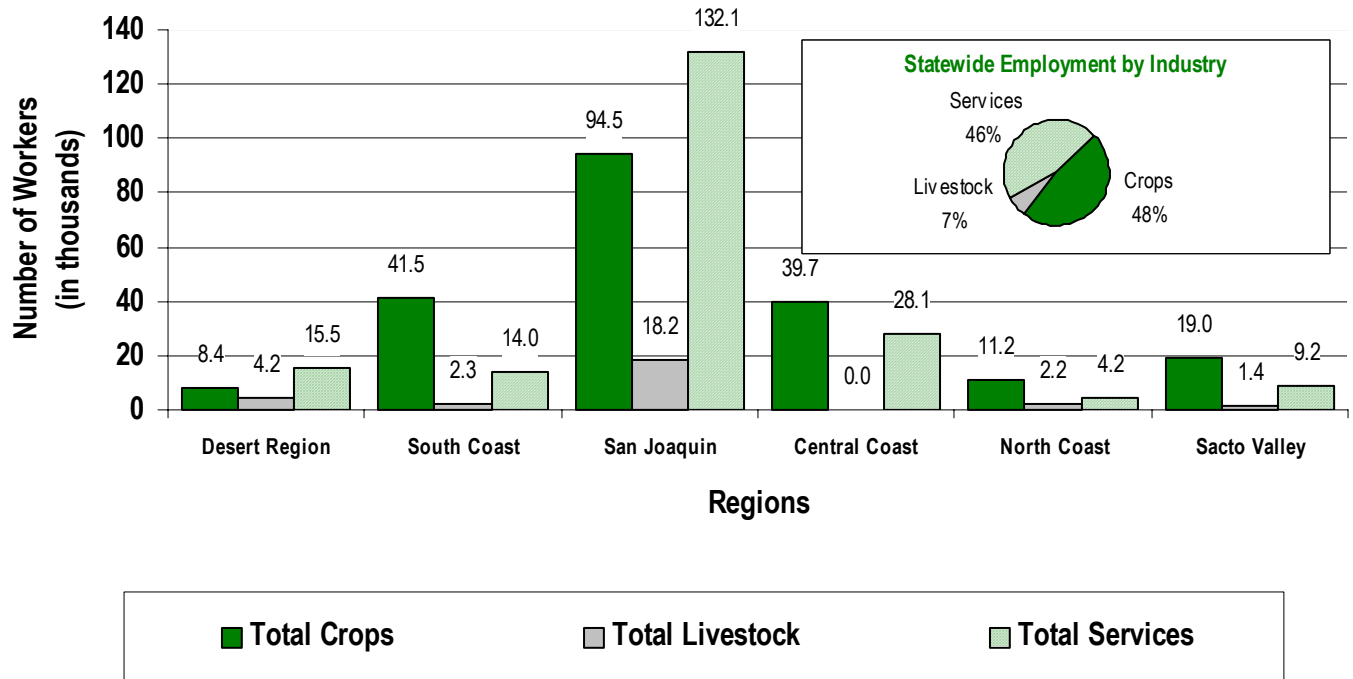
Cotton and alfalfa growers irrigated and applied insecticides to control insect pests where necessary. Harvesting of alfalfa seed continued. Alfalfa hay and Sudan grass were cut, windrowed and baled. Harvested fields were irrigated. A number of grain fields were planted for winter forage. Other harvested grain fields were disced and leveled in preparation for fall planting. Harvesting of field and silage corn was ongoing. Maturing cornfields were irrigated and treated with pesticides. Harvesting of wild rice and safflower continued. Pesticides were applied to dry bean fields to control lygus. Black-eyed beans were prepared for cutting and drying. Harvesting of sugar beets continued and fields of sugar beets and sweet potatoes were being irrigated. The summer vegetable harvest was in full swing. Broccoli and cauliflower sets were transplanted to the field. Spinach fields were bedded up, pre-irrigated and readied for late winter planting. Planting of broccoli and lettuce continued in Fresno County's west side districts. Fields were irrigated and treated for control of insect pests as necessary. Some asparagus growers were applying aphid treatments in their fields. Stink bug treatments continued in tomato fields. Some melon fields received cucumber beetle treatments. Tomato harvesting continued in the San Joaquin Valley. Harvesting of squash, bell peppers, and melons was underway. The following vegetables were also harvested: basil, broccoli, carrots, cauliflower, cucumbers, daikon, eggplant, garlic, green onions, hot peppers, sweet peppers, long beans, okra, parsley, spinach, squash, sweet corn, and tomatoes.

Stone fruit harvesting remained in full swing. Irrigation, pruning, and weed control activities continued in many stone fruit orchards. Prune and fig harvesting remained steady. Harvesting activity continued in table and wine grape vineyards while the harvesting of raisin grapes increased in most locations. Harvesting of early pomegranate varieties commenced in some locations. Strawberry harvesting continued in the Central Coast counties, while planting began in the eastern districts as the weather began to cool. In other locations, field preparations for strawberry planting continued. Valencia orange harvesting continued. Small quantities of lemons were picked and packed in the coastal region. Almond harvesting continued in many areas. Irrigation and pest control activities, also, continued in many orchards. Walnut orchards were being prepared for the harvest of early varieties.

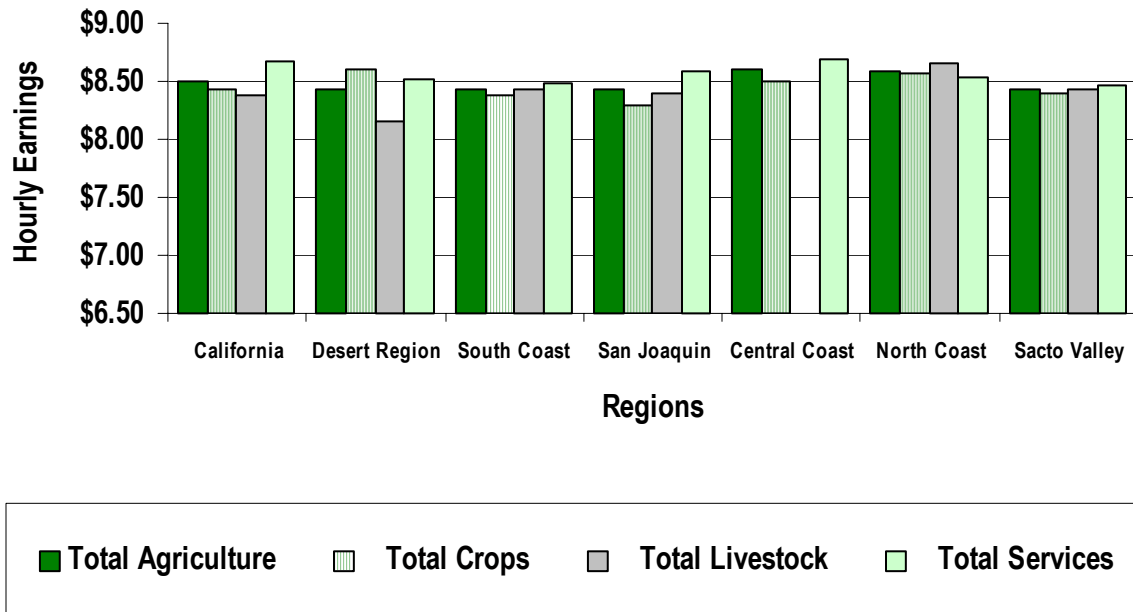
Feeder cattle were beginning to ship to market and some beef cattle were moved from summer to winter pastures. Most beehives were moved out of alfalfa seed and vegetable fields. Sheep grazed in harvested melon fields and fallow fields in the central area. Dairy cows were cooled with fans and misters.

Agricultural Summary Charts

Wage and Salary Workers



Average Hourly Earnings



CALIFORNIA AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	445.7	378.2	436.7
Total Agricultural Production/Crops	214.3	176.9	215.4
Cash Grains	2.4	2.6	2.5
Rice	1.3	1.2	1.6
Other Cash Grains	1.1	1.4	0.9
Field Crops Except Grains	8.6	9.2	10.7
Cotton	4.2	4.7	5.7
Other Field Crops	4.4	4.5	5.0
Vegetables and Melons	31.0	34.2	36.3
Total Fruits and Tree Nuts	102.5	67.0	104.6
Berries	16.3	14.2	17.9
Grapes	47.2	27.3	47.9
Tree Nuts	9.5	6.6	9.1
Citrus Fruits	3.5	2.8	3.8
Deciduous Tree Fruit	17.4	9.9	16.9
Other Fruits & Nuts	8.6	6.2	9.0
Total Horticultural Specialties	41.6	43.0	36.1
Ornamental Floral & Nursery	36.9	41.4	32.4
Food Crops Grown Under Cover	4.7	1.6	3.7
General Farm Primarily Crop	28.2	20.9	25.2
Agricultural Production/Livestock	28.3	32.0	29.4
Beef Cattle Feed Lots	2.3	2.1	0.8
Beef Cattle Except Feed Lots	4.8	4.6	3.6
Dairy Farms	14.5	12.5	16.9
Chicken Eggs	2.2	8.3	2.3
Turkey & Turkey Eggs	0.6	2.0	0.9
Other Livestock	3.9	2.5	4.9
Total Agricultural Services	203.1	169.3	191.9
Soil Preparation Services	1.7	1.7	1.5
Crop Services	47.2	71.9	51.3
Plant Cultivate & Protection	2.9	3.0	6.5
Harvest Primarily by Machine	5.6	6.3	7.4
Preparation Services for Market	38.1	62.1	36.8
Cotton Ginning	0.6	0.5	0.6
Total Farm Labor & Management	154.2	95.7	139.1
Farm Labor Contractors	144.3	84.1	129.0
Farm Management Services	9.9	11.6	10.1

Average Hourly Earnings (In dollars per hour)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	8.50	8.47	8.23
Total Agricultural Production/Crops	8.44	8.38	8.10
Cash Grains	8.57	8.42	8.26
Rice	8.54	8.52	8.35
Other Cash Grains	8.61	8.33	8.16
Field Crops Except Grains	8.41	8.37	8.05
Cotton	8.45	8.31	7.95
Other Field Crops	8.37	8.44	8.16
Vegetables and Melons	8.53	8.67	8.08
Total Fruits and Tree Nuts	8.36	8.24	7.90
Berries	8.20	8.04	7.64
Grapes	8.45	8.29	7.96
Tree Nuts	8.31	8.12	7.90
Citrus Fruits	8.32	8.34	7.91
Deciduous Tree Fruit	8.38	8.20	7.73
Other Fruits & Nuts	8.50	8.45	8.28
Total Horticultural Specialties	8.51	8.44	8.23
Ornamental Floral & Nursery	8.58	8.58	8.29
Food Crops Grown Under Cover	8.45	8.30	8.18
General Farm Primarily Crop	8.24	8.17	8.06
Agricultural Production/Livestock	8.39	8.32	8.06
Beef Cattle Feed Lots	8.21	7.97	8.06
Beef Cattle Except Feed Lots	8.47	8.52	8.21
Dairy Farms	8.55	8.50	8.57
Chicken Eggs	8.06	7.98	7.38
Turkey & Turkey Eggs	8.49	8.50	7.91
Other Livestock	8.53	8.48	8.23
Total Agricultural Services	8.67	8.69	8.52
Soil Preparation Services	8.77	8.88	8.64
Crop Services	8.82	8.76	8.68
Plant Cultivate & Protection	8.60	8.64	8.59
Harvest Primarily by Machine	8.93	8.84	8.45
Preparation Services for Market	8.29	8.31	8.08
Cotton Ginning	9.45	9.26	9.61
Total Farm Labor & Management	8.44	8.44	8.23
Farm Labor Contractors	8.23	8.22	8.00
Farm Management Services	8.64	8.66	8.47

CENTRAL COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	67.8	53.6	72.2
Total Agricultural Production/Crops	39.7	32.4	43.1
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.2
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.2
Vegetables and Melons	14.5	12.8	16.7
Total Fruits and Tree Nuts	13.2	8.8	13.9
Berries	11.7	8.0	11.6
Grapes	1.0	0.1	1.1
Tree Nuts	0.1	0.0	0.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.1	0.2	0.5
Other Fruits & Nuts	0.3	0.5	0.5
Total Horticultural Specialties	9.1	8.6	9.5
Ornamental Floral & Nursery	6.9	8.2	7.2
Food Crops Grown Under Cover	2.2	0.4	2.3
General Farm Primarily Crop	2.9	2.2	2.8
Agricultural Production/Livestock	0.0	0.0	1.1
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.4
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.0	0.0	0.4
Total Agricultural Services	28.1	21.2	28.0
Soil Preparation Services	1.2	1.3	0.3
Crop Services	7.7	7.5	10.9
Plant Cultivate & Protection	0.1	0.1	0.8
Harvest Primarily by Machine	2.4	2.6	2.5
Preparation Services for Market	5.2	4.8	7.6
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	19.2	12.4	16.8
Farm Labor Contractors	18.2	11.3	16.0
Farm Management Services	1.0	1.1	0.8

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	8.60	8.66	8.25
Total Agricultural Production/Crops	8.51	8.48	8.30
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	8.27
Cotton	na	na	na
Other Field Crops	na	na	8.27
Vegetables and Melons	8.91	8.81	8.36
Total Fruits and Tree Nuts	8.40	8.40	8.32
Berries	8.49	8.68	8.24
Grapes	8.43	8.32	8.16
Tree Nuts	8.43	na	8.51
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.07	8.09	8.17
Other Fruits & Nuts	8.60	8.52	8.52
Total Horticultural Specialties	8.49	8.49	8.48
Ornamental Floral & Nursery	8.51	8.59	8.60
Food Crops Grown Under Cover	8.46	8.39	8.36
General Farm Primarily Crop	8.23	8.21	8.05
Agricultural Production/Livestock	na	na	7.85
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.06
Dairy Farms	na	na	8.38
Chicken Eggs	na	na	7.02
Turkey & Turkey Eggs	na	na	7.80
Other Livestock	na	na	7.99
Total Agricultural Services	8.69	8.83	8.61
Soil Preparation Services	8.90	9.10	9.09
Crop Services	8.67	8.78	8.42
Plant Cultivate & Protection	8.29	8.60	8.41
Harvest Primarily by Machine	9.24	9.28	8.44
Preparation Services for Market	8.48	8.45	8.40
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.50	8.62	8.33
Farm Labor Contractors	8.24	8.42	8.02
Farm Management Services	8.76	8.82	8.63

DESERT AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	28.1	32.2	27.8
Total Agricultural Production/Crops	8.4	7.5	10.1
Cash Grains	0.1	0.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.0	0.1
Field Crops Except Grains	1.7	1.2	1.5
Cotton	0.0	0.0	0.1
Other Field Crops	1.7	1.2	1.4
Vegetables and Melons	1.1	1.0	2.1
Total Fruits and Tree Nuts	2.1	0.5	3.1
Berries	0.1	0.0	0.1
Grapes	0.8	0.2	0.9
Tree Nuts	0.2	0.2	0.3
Citrus Fruits	0.0	0.0	0.4
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	1.0	0.1	1.3
Total Horticultural Specialties	2.3	3.4	1.6
Ornamental Floral & Nursery	2.3	3.4	1.5
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	1.1	1.4	1.7
Agricultural Production/Livestock	4.2	9.6	5.6
Beef Cattle Feed Lots	1.2	1.1	0.3
Beef Cattle Except Feed Lots	0.0	0.0	0.6
Dairy Farms	1.3	0.9	3.0
Chicken Eggs	0.7	7.0	1.1
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	1.0	0.6	0.6
Total Agricultural Services	15.5	15.1	12.1
Soil Preparation Services	0.0	0.0	0.2
Crop Services	5.4	1.9	3.7
Plant Cultivate & Protection	0.6	0.6	0.4
Harvest Primarily by Machine	0.9	0.9	0.9
Preparation Services for Market	3.8	0.4	2.3
Cotton Ginning	0.1	0.0	0.1
Total Farm Labor & Management	10.1	13.2	8.2
Farm Labor Contractors	9.2	12.0	7.3
Farm Management Services	0.9	1.2	0.9

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	8.42	8.31	8.09
Total Agricultural Production/Crops	8.60	8.54	7.93
Cash Grains	9.19	na	8.16
Rice	na	na	na
Other Cash Grains	9.19	na	8.16
Field Crops Except Grains	8.95	8.93	8.05
Cotton	na	na	7.95
Other Field Crops	8.95	8.93	8.14
Vegetables and Melons	8.43	9.01	7.76
Total Fruits and Tree Nuts	8.44	8.14	7.70
Berries	8.62	na	7.74
Grapes	8.45	7.91	7.51
Tree Nuts	8.15	7.94	7.29
Citrus Fruits	na	na	7.97
Deciduous Tree Fruit	na	na	7.25
Other Fruits & Nuts	8.54	8.58	8.41
Total Horticultural Specialties	8.36	8.56	7.97
Ornamental Floral & Nursery	8.36	8.56	7.95
Food Crops Grown Under Cover	na	na	7.98
General Farm Primarily Crop	8.21	8.04	7.94
Agricultural Production/Livestock	8.16	7.96	7.96
Beef Cattle Feed Lots	8.25	7.84	8.11
Beef Cattle Except Feed Lots	na	na	7.96
Dairy Farms	8.50	8.46	8.59
Chicken Eggs	7.73	7.44	7.13
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.16	8.08	8.02
Total Agricultural Services	8.52	8.45	8.37
Soil Preparation Services	na	na	8.37
Crop Services	8.73	8.61	8.57
Plant Cultivate & Protection	8.58	8.49	8.36
Harvest Primarily by Machine	8.91	9.03	8.66
Preparation Services for Market	7.94	8.11	7.83
Cotton Ginning	9.47	8.79	9.42
Total Farm Labor & Management	8.31	8.29	8.16
Farm Labor Contractors	8.13	8.19	7.89
Farm Management Services	8.49	8.39	8.43

NORTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	17.6	14.4	20.2
Total Agricultural Production/Crops	11.2	9.6	13.2
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.2	0.2	0.1
Cotton	0.0	0.0	0.0
Other Field Crops	0.2	0.2	0.1
Vegetables and Melons	0.4	0.1	0.4
Total Fruits and Tree Nuts	9.4	8.0	10.7
Berries	0.0	0.0	0.0
Grapes	8.7	7.4	8.9
Tree Nuts	0.1	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.6	0.6	1.5
Other Fruits & Nuts	0.0	0.0	0.2
Total Horticultural Specialties	1.2	1.3	1.6
Ornamental Floral & Nursery	1.2	1.3	1.4
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	0.0	0.0	0.4
Agricultural Production/Livestock	2.2	2.2	1.9
Beef Cattle Feed Lots	0.0	0.0	0.1
Beef Cattle Except Feed Lots	0.0	0.0	0.2
Dairy Farms	1.1	1.2	1.0
Chicken Eggs	0.3	0.3	0.1
Turkey & Turkey Eggs	0.0	0.7	0.1
Other Livestock	0.8	0.0	0.4
Total Agricultural Services	4.2	2.6	5.1
Soil Preparation Services	0.0	0.0	0.1
Crop Services	1.0	0.0	1.4
Plant Cultivate & Protection	0.0	0.0	0.2
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	1.0	0.0	1.2
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	3.2	2.6	3.6
Farm Labor Contractors	1.1	0.0	1.1
Farm Management Services	2.1	2.6	2.5

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	8.59	8.73	8.32
Total Agricultural Production/Crops	8.58	8.67	8.32
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	8.36	8.36	8.16
Cotton	na	na	na
Other Field Crops	8.36	8.36	8.16
Vegetables and Melons	8.57	8.82	8.38
Total Fruits and Tree Nuts	8.50	8.66	8.46
Berries	na	na	na
Grapes	8.53	8.60	8.59
Tree Nuts	8.25	na	8.28
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.72	8.71	8.33
Other Fruits & Nuts	na	na	8.62
Total Horticultural Specialties	8.87	8.85	8.43
Ornamental Floral & Nursery	8.87	8.85	8.64
Food Crops Grown Under Cover	na	na	8.22
General Farm Primarily Crop	na	na	8.16
Agricultural Production/Livestock	8.66	8.59	8.18
Beef Cattle Feed Lots	na	na	8.06
Beef Cattle Except Feed Lots	na	na	8.03
Dairy Farms	8.52	8.40	8.34
Chicken Eggs	8.60	8.41	8.10
Turkey & Turkey Eggs	na	8.97	8.10
Other Livestock	8.87	na	8.47
Total Agricultural Services	8.54	8.92	8.46
Soil Preparation Services	na	na	8.54
Crop Services	8.29	na	8.34
Plant Cultivate & Protection	na	na	8.59
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	8.29	na	8.08
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.78	8.92	8.50
Farm Labor Contractors	8.64	na	8.31
Farm Management Services	8.92	8.92	8.68

SOUTH COAST AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	57.8	59.4	57.1
Total Agricultural Production/Crops	41.5	45.1	40.2
Cash Grains	0.0	0.2	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.2	0.1
Field Crops Except Grains	0.3	0.3	0.3
Cotton	0.0	0.0	0.1
Other Field Crops	0.3	0.3	0.2
Vegetables and Melons	7.6	10.8	8.9
Total Fruits and Tree Nuts	8.9	8.4	10.5
Berries	4.3	6.1	5.6
Grapes	1.9	0.3	1.8
Tree Nuts	0.1	0.1	0.1
Citrus Fruits	1.7	0.8	1.5
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	0.9	1.1	1.4
Total Horticultural Specialties	21.7	21.4	17.1
Ornamental Floral & Nursery	19.7	20.8	16.3
Food Crops Grown Under Cover	2.0	0.6	0.8
General Farm Primarily Crop	3.0	4.0	3.3
Agricultural Production/Livestock	2.3	2.1	2.0
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.6	0.7	0.3
Dairy Farms	0.1	0.2	0.2
Chicken Eggs	0.6	0.6	0.4
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	1.0	0.6	1.1
Total Agricultural Services	14.0	12.2	14.9
Soil Preparation Services	0.0	0.0	0.1
Crop Services	3.0	2.1	2.9
Plant Cultivate & Protection	0.6	0.6	0.5
Harvest Primarily by Machine	0.0	0.0	0.7
Preparation Services for Market	2.4	1.5	1.7
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	11.0	10.1	11.9
Farm Labor Contractors	9.2	8.9	10.9
Farm Management Services	1.8	1.2	1.0

Average Hourly Earnings (In dollars per hour)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	8.43	8.47	8.25
Total Agricultural Production/Crops	8.38	8.41	8.21
Cash Grains	na	8.65	8.57
Rice	na	na	na
Other Cash Grains	na	8.65	8.57
Field Crops Except Grains	8.34	8.35	8.18
Cotton	na	na	8.10
Other Field Crops	8.34	8.35	8.26
Vegetables and Melons	8.43	8.61	7.98
Total Fruits and Tree Nuts	8.38	8.23	7.85
Berries	7.89	7.84	7.31
Grapes	8.47	8.40	7.96
Tree Nuts	8.34	8.00	7.59
Citrus Fruits	8.48	8.49	8.24
Deciduous Tree Fruit	na	na	7.39
Other Fruits & Nuts	8.71	8.44	8.61
Total Horticultural Specialties	8.62	8.49	8.20
Ornamental Floral & Nursery	8.78	8.67	8.15
Food Crops Grown Under Cover	8.46	8.31	8.24
General Farm Primarily Crop	8.12	8.15	8.49
Agricultural Production/Livestock	8.43	8.46	8.24
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.69	8.61	8.65
Dairy Farms	8.35	8.31	8.63
Chicken Eggs	8.22	8.35	7.42
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.47	8.58	8.25
Total Agricultural Services	8.48	8.52	8.31
Soil Preparation Services	na	na	8.37
Crop Services	8.60	8.60	8.43
Plant Cultivate & Protection	8.85	8.79	8.81
Harvest Primarily by Machine	na	na	8.45
Preparation Services for Market	8.35	8.41	8.02
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.36	8.45	8.12
Farm Labor Contractors	8.12	8.20	7.90
Farm Management Services	8.60	8.69	8.34

na = not available

SAN JOAQUIN AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	244.8	196.3	235.6
Total Agricultural Production/Crops	94.5	65.7	92.5
Cash Grains	0.5	0.8	0.5
Rice	0.2	0.2	0.1
Other Cash Grains	0.3	0.6	0.4
Field Crops Except Grains	6.1	6.8	8.0
Cotton	4.2	4.7	5.5
Other Field Crops	1.9	2.1	2.5
Vegetables and Melons	4.5	6.4	6.8
Total Fruits and Tree Nuts	61.8	36.3	58.8
Berries	0.1	0.1	0.1
Grapes	34.6	19.0	34.6
Tree Nuts	7.1	5.4	5.7
Citrus Fruits	1.8	2.0	1.9
Deciduous Tree Fruit	13.3	6.5	11.9
Other Fruits & Nuts	4.9	3.3	4.6
Total Horticultural Specialties	4.7	6.2	4.5
Ornamental Floral & Nursery	4.2	5.6	4.3
Food Crops Grown Under Cover	0.5	0.6	0.2
General Farm Primarily Crop	16.9	9.2	13.9
Agricultural Production/Livestock	18.2	16.7	17.3
Beef Cattle Feed Lots	1.1	1.0	0.4
Beef Cattle Except Feed Lots	3.6	3.2	1.6
Dairy Farms	11.5	9.6	12.1
Chicken Eggs	0.6	0.4	0.6
Turkey & Turkey Eggs	0.6	1.3	0.7
Other Livestock	0.8	1.2	1.9
Total Agricultural Services	132.1	113.9	125.8
Soil Preparation Services	0.5	0.4	0.7
Crop Services	27.2	58.1	29.8
Plant Cultivate & Protection	1.0	1.4	4.2
Harvest Primarily by Machine	2.2	2.4	3.0
Preparation Services for Market	23.5	53.8	22.1
Cotton Ginning	0.5	0.5	0.5
Total Farm Labor & Management	104.4	55.4	95.3
Farm Labor Contractors	101.0	50.0	90.8
Farm Management Services	3.4	5.4	4.5

Average Hourly Earnings (In dollars per hour)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	8.43	8.37	8.17
Total Agricultural Production/Crops	8.30	8.22	7.93
Cash Grains	8.46	8.24	8.04
Rice	8.57	8.47	8.25
Other Cash Grains	8.34	8.00	7.83
Field Crops Except Grains	8.28	8.34	7.96
Cotton	8.45	8.31	7.79
Other Field Crops	8.11	8.36	8.12
Vegetables and Melons	8.28	8.28	8.06
Total Fruits and Tree Nuts	8.18	8.11	7.58
Berries	7.60	7.60	7.28
Grapes	8.34	8.31	7.66
Tree Nuts	8.35	8.30	7.97
Citrus Fruits	8.15	8.19	7.53
Deciduous Tree Fruit	8.37	7.88	7.37
Other Fruits & Nuts	8.24	8.37	7.65
Total Horticultural Specialties	8.44	8.33	8.07
Ornamental Floral & Nursery	8.45	8.45	8.09
Food Crops Grown Under Cover	8.42	8.21	8.05
General Farm Primarily Crop	8.18	8.06	7.86
Agricultural Production/Livestock	8.39	8.31	8.12
Beef Cattle Feed Lots	8.16	8.10	8.00
Beef Cattle Except Feed Lots	8.31	8.45	8.22
Dairy Farms	8.82	8.69	8.78
Chicken Eggs	7.70	7.70	7.24
Turkey & Turkey Eggs	8.49	8.03	7.83
Other Livestock	8.85	8.87	8.63
Total Agricultural Services	8.59	8.57	8.47
Soil Preparation Services	8.64	8.66	8.71
Crop Services	8.81	8.71	8.69
Plant Cultivate & Protection	8.74	8.61	8.76
Harvest Primarily by Machine	8.69	8.39	8.24
Preparation Services for Market	8.40	8.12	7.94
Cotton Ginning	9.42	9.73	9.80
Total Farm Labor & Management	8.31	8.33	8.03
Farm Labor Contractors	8.09	8.09	7.79
Farm Management Services	8.52	8.56	8.26

na = not available

SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

Wage and Salary Workers (In Thousands)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	29.6	22.3	23.8
Total Agricultural Production/Crops	19.0	16.6	16.3
Cash Grains	1.8	1.6	1.8
Rice	1.1	1.0	1.5
Other Cash Grains	0.7	0.6	0.3
Field Crops Except Grains	0.3	0.7	0.6
Cotton	0.0	0.0	0.0
Other Field Crops	0.3	0.7	0.6
Vegetables and Melons	2.9	3.1	1.4
Total Fruits and Tree Nuts	7.1	5.0	7.6
Berries	0.1	0.0	0.5
Grapes	0.2	0.3	0.6
Tree Nuts	1.9	0.9	2.7
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	3.4	2.6	2.8
Other Fruits & Nuts	1.5	1.2	1.0
Total Horticultural Specialties	2.6	2.1	1.8
Ornamental Floral & Nursery	2.6	2.1	1.7
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	4.3	4.1	3.1
Agricultural Production/Livestock	1.4	1.4	1.5
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.6	0.7	0.5
Dairy Farms	0.5	0.6	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.3	0.1	0.5
Total Agricultural Services	9.2	4.3	6.0
Soil Preparation Services	0.0	0.0	0.1
Crop Services	2.9	2.3	2.6
Plant Cultivate & Protection	0.6	0.3	0.4
Harvest Primarily by Machine	0.1	0.4	0.3
Preparation Services for Market	2.2	1.6	1.9
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	6.3	2.0	3.3
Farm Labor Contractors	5.6	1.9	2.9
Farm Management Services	0.7	0.1	0.4

na = not available

Average Hourly Earnings (In dollars per hour)

Industry	Aug 2002	Jul 2002	Aug 2001
Total Agriculture	8.43	8.44	8.28
Total Agricultural Production/Crops	8.40	8.34	8.02
Cash Grains	8.40	8.45	8.27
Rice	8.51	8.57	8.45
Other Cash Grains	8.29	8.33	8.08
Field Crops Except Grains	8.07	8.19	8.00
Cotton	na	na	na
Other Field Crops	8.07	8.19	8.00
Vegetables and Melons	8.55	8.46	7.96
Total Fruits and Tree Nuts	8.41	8.23	7.80
Berries	8.40	na	7.64
Grapes	8.50	8.19	7.88
Tree Nuts	8.36	8.25	7.75
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.36	8.12	7.86
Other Fruits & Nuts	8.43	8.34	7.89
Total Horticultural Specialties	8.51	8.35	8.26
Ornamental Floral & Nursery	8.51	8.35	8.30
Food Crops Grown Under Cover	na	na	8.22
General Farm Primarily Crop	8.47	8.37	7.83
Agricultural Production/Livestock	8.43	8.50	8.35
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.42	8.51	8.36
Dairy Farms	8.56	8.62	8.67
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.31	8.37	8.01
Total Agricultural Services	8.47	8.49	8.49
Soil Preparation Services	na	na	8.78
Crop Services	8.58	8.61	8.42
Plant Cultivate & Protection	8.55	8.73	8.59
Harvest Primarily by Machine	8.88	8.65	8.46
Preparation Services for Market	8.30	8.46	8.21
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.36	8.37	8.27
Farm Labor Contractors	8.15	8.18	8.06
Farm Management Services	8.56	8.56	8.47

DATA NOTES

Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the state's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12th calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **Agricultural Services employment survey data may be recalculated; historical trend information is used to adjust sample data when low response rates occur.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between regional current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

Subscriptions:

Annual subscriptions are available for \$30.00 per year. Ask for publication number LAU-15. To subscribe or for information, please call (916) 262-2162 or write to:

Employment Development Department
Labor Market Information Division
Publications Information Unit
7000 Franklin Blvd., Building 1100
Sacramento, CA 95823

The Agricultural Bulletin is also available on our Internet website at <http://www.calmis.ca.gov>.